

CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

1. A method for designing, deploying or optimizing a communications network, comprising the steps of:

generating a computerized model of a space, said space having a plurality of different objects therein each of which have attributes which impact performance of a communications network;

establishing a desired performance metric for at least one selected location within said space;

modeling performance attributes of a plurality of different components which may be used in said communications network;

specifying components from said plurality of different components to be used in said communications network

specifying locations within said space for a plurality of different components in said computerized model;

predicting a predicted performance metric for said at least one selected location within said space based on said selected components and said selected locations; and

comparing said predicted performance metric to said desired performance metric.

2. The method of claim 1 wherein said steps of specifying components and specifying locations is performed automatically multiple times until a desired comparison is obtained in said comparing step.

3. The method of claim 1 further comprising the step of specifying

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5. The method of claim 3 wherein said steps of specifying components, specifying locations, and specifying a configuration are performed automatically multiple times until a desired comparison is obtained in said comparing step.

7. The method of claim 6 wherein the wireless communication components are antennas.

9. The method of claim 1 wherein said computerized model of said space is three dimensional.

10. The method of claim 1 wherein said step of selecting locations is performed with a graphical interface.

11. The method of claim 1 wherein said step of specifying locations is performed by specifying a location attribute for said selected components.

12. An apparatus for designing, deploying or optimizing a communications network, comprising:

means for generating a computerized model of a space, said space having a plurality of different objects therein each of which have attributes which impact performance of a communications network;

means for establishing a desired performance metric for at least one selected location within said space;

computerized models of performance attributes of a plurality of different components which may be used in said communications network;

means for specifying components from said plurality of different components to be used in said communications network

means for specifying locations within said space for a plurality of different components in said computerized model;

means for predicting a predicted performance metric for said at least one selected location within said space based on said selected components and said selected locations; and

means for comparing said predicted performance metric to said desired performance metric.

13. The apparatus of claim 12 further comprising means for specifying a configuration for said selected components.

